

Heating & Air Conditioning **Amana**

Product Data Book



FULL WARRANTY

- 1st Year
- 2nd- through 5th-Year—Sealed System

LIMITED WARRANTY

- 2nd- through 5th-Year—Parts



Added Great Standard Features
More Efficient
Quieter
Easier to Clean
Longer Lasting



PTAC

Packaged Terminal Air Conditioner and Heat Pump

No other unit in the industry offers so many extras already built in as standard on every unit. Don't settle for anything less than the Amana® brand Standard Advantage!

New Standard Features

NEW Bent Coil Design. Our unique new bent condenser coil maximizes airflow through the 25%-increased primary and secondary coil surfaces, which further cools the refrigerant and maximizes the sealed system life. The bent coil design also allows us to maximize the fan slinger ring by adding side surface for the condensate to be evaporated, reducing condensate over-flow. Our bent coil technology raises the bar on America's best PTAC to a new level of excellence. Why bend the coil? Quite simply, to get the maximum primary coil surface area possible into an industry standard-sized wall sleeve. More primary coil surface means more efficient heat transfer, lower system operating temperatures, longer compressor life, better condensate dispersion and sustainable high efficiencies.

NEW Quieter Operation. Our new PTAC has been redesigned to be the quietest PTAC we've ever built! The new 9-bladed condenser fan, additional copper refrigerant tubing, increased copper tubing spacing, relocation of the reversing valve on heat pumps, as well as other product enhancements, all equate to a more reliable and much quieter operating unit.

NEW Forward-curved 9-Blade Fan. The new 9-blade, forward-curved, polypropylene condenser fan has been designed to move more air more efficiently and with much less operating sound than fans with fewer blades. The result is a more efficient unit that will last longer and operate quietly.

NEW Removable Top Condenser Shroud. The removable top of the new bent coil condenser shroud allows easy access to clean the condenser coil and maintain the unit's efficiency and capacity. The removable top reduces cleaning time and cost. A clean condenser coil extends compressor life.

NEW Pullout Filter Design. Our new 1-piece pullout filter design allows easy access to clean or replace the filter. Just open the front louver and pull out the filter. The universal filter design allows for fool-proof installation. The slide-out design also allows for many optional approved filter media to be used, such as our Activated Charcoal Filter Kit (CFK01B).

NEW Electronic Temperature Limiting. The new "B" series PTAC has an enhanced electronic temperature limiter that allows you to easily select any of the 4 pre-programmed room temperature ranges by simply flipping an easily accessible set of switches. Save energy and money by avoiding the extreme temperature settings that can occur with guest operation.

NEW Deep Base Pan & Sub-cooler. The extra-deep base pan holds additional condensate water and allows more of the coil surface to be immersed in condensate water, which further cools the refrigerant and maximizes heat transfer. The new sub-cooler design is also in the deepened base pan and adds additional heat transfer. The result is higher efficiency and a cooler sealed system, which equates to longer life.

NEW Stonewood Room Front. Our new Stonewood room front strikes the balance between attractive styling and practical design. Distinctive contours and a modern appearance enhance the character of even the most luxurious room, while the sleek 7 3/4" depth—one of the shallowest in the industry—maximizes usable space for your guests.

NEW WS900D Wall Sleeve. The new Stonewood wall sleeve has been designed using a technique to dramatically strengthen and make the sleeve more rigid. The sleeve's base pan has also been enhanced by now being made of drawn steel, so the sleeve has no corner seams that can break and potentially leak if improperly installed. (This item purchased separately.)

Standard Features

Energy Efficiencies. Our units' high efficiencies can qualify you for many of the rebates offered by electrical power companies. EERs up to 11.6 and heat pump COPs up to 3.3 keep energy consumption to a minimum.

Quiet Operation. The unit's state-of-the-art design and construction provide a quiet environment, allowing guests to enjoy peaceful, sleep-filled nights. Operating sound levels are further dampened when the unit is in "low fan" mode of operation.

Increased Dehumidification Capacity. Maintain lower humidity levels in rooms while cooling them without the need for expensive add-ons. As a result, guests feel more comfortable at higher temperatures, thus reducing cooling costs, and increasing the life of your furniture, wall coverings, and fixtures is extended, which means less replacement costs.

5-Year Warranty. Enjoy one of the most comprehensive warranties in the industry. Full 1-year warranty on unit parts and labor; full 5-year warranty on the entire sealed system components; limited 2nd through 5th year parts-only warranty on functional components.

Condensate Dispersion System. Our condensate dispersion system removes condensate from indoor cooling operation by throwing water directly on to the outdoor "bent" coil for rapid evaporation and increased cooling efficiencies. The slinger ring on the new, enhanced 9-bladed fan draws water up and into fan blades. This water is then atomized and evaporated into the atmosphere through the condenser. Increased surface area from the unique "bent" coil design allow more water to get evaporated on the sides of the coils and helps to minimize condensate run-off.

Front Desk Control. Obtain greater savings by centrally controlling units and eliminate wasted energy generated by cooling and heating unoccupied rooms. Each unit has low voltage interface capability with a field supplied front desk ON/OFF switch.

Freeze Protection. When the unit senses temperatures of 40 °F or below, the unit activates the fan motor and either the electric resistance heater or the hydronic heater. This may help prevent bursting water pipes or broken fixtures caused by freezing temperatures.

Easy To Use Controls. No complex controls to confuse your guests and create phone calls for your manager. Controls are easy to read, understand and activate.

7 $\frac{3}{8}$ " Unit Front. Enhance valuable room space—the unit front has a sleek 7 $\frac{3}{8}$ " depth, one of the shallowest silhouettes in the industry today. In addition, to inhibit guest-tampering, the front can be secured to the chassis with a hidden screw.

Versatile Style. Our unit's stylish design and neutral color make it compatible with virtually any room décor or architectural design. The unit becomes less noticeable as it blends into the room's color scheme.

Easy to Service and LED Diagnostics. The main components are easily serviced and there is no guessing to determine the problem with our easy-to-read diagnostics. For example: 2 blinks indicate a blown or missing fuse while 1 blink every 5 seconds means the board is operating correctly. *This diagnostic light is visible by removing the front cover.*

Extended Heat Pump Heating. The heat pump models will operate in the heat pump heating mode down to as low as 24 °F outdoor ambient, providing additional hours of energy-saving operation.

Zero Floor Clearance. Unit can be installed flush to the finished floor, if desired. (Some accessories do not have zero clearance).

Remote Thermostat Control. Each unit is built to be operated from a remote-mounted thermostat, if desired. Even if you start without a remote, you can take advantage of a built-in low-voltage power source that accommodates a variety of manufacturer approved thermostat choices—manual, auto changeover or programmable—at a later date.

Remote Temperature Sensing. Guests enjoy ultimate comfort with consistent climate control. When the field-installed thermistor (RTS02) is used, the unit mounted thermostat is overridden to allow more accurate, internal wall-sensing of room ambient temperature.

30-Second Fan Off Delay. Fan continues to run 30 seconds after compressor has stopped in either cooling or heat pump mode and after electric heat has been turned off. This improves efficiency by dispersing the conditioned air on the coils into the room.

Compressor Lock-In. This feature helps prolong the life of the compressor by preventing short-cycling. When the compressor is switched from Off to On because room temperature has risen or fallen below the specified limit, it will remain on for at least 4 minutes. If the temperature set point is changed during this 4 minutes, the lock-in feature is overridden.

Automatic Emergency Heat. No more “my unit is not heating” complaints during the middle of the night. Heat pump units will automatically switch over to electric resistance heat if for any reason the heat pump compressor system fails or if the heating load is greater than the unit capacity.

Fan Mode Switch. Take advantage of each unit's dual options: select continuous fan operation or cycle the fan ON and OFF with the thermostat.

Reduced Outdoor Sound Transmission. With our STC (Sound Transmission Coefficient) rating of 27, we keep outdoor sounds out-of-doors. By installing the optional STC 30 Rating Accessory Kit, ratings can be increased to STC 30, thereby meeting or exceeding most ratings requirements. **(Kit ordered separately.)**

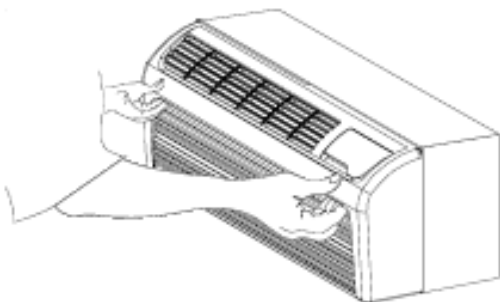
Hidden Ventilation Control. The ventilation control lever is hidden from the occupant's view to allow you to manage ventilation requirements.

Optional Accessory

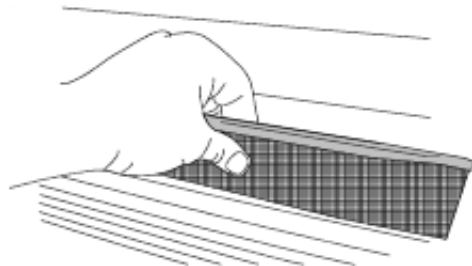
Wall Sleeve (14 $\frac{1}{8}$ " x 42" x 16 $\frac{1}{16}$ "). No more worries about changing out non-standard sleeves that do not accommodate the bulk of what the industry has to offer. Our wall sleeve is an industry-standard size of 14 $\frac{1}{8}$ " deep x 42" wide x 16 $\frac{1}{16}$ " high. (Please Note: Wall Sleeve must be ordered separately.)

NEW Pull-out Easy Access Filter

Maintaining the unit's efficiency while saving time and money is easy. The filter is easily accessed for cleaning or replacement without removing the unit front.



Step 1: Open the intake grille louver.



Step 2: Pull the filter up and out.

Cooling/Electric Heat—PTC Models

Model (Basic) (Notes 1, 7, 9, 10)	PTC073B**AE	PTC074B**AE	PTC093B**AE	PTC094B**AE	PTC123B**AE	PTC124B**AE	PTC153B**AE	PTC154B**AE
Voltage (Notes 1, 3)	230/208	265	230/208	265	230/208	265	230/208	265
Capacity (BTUH)	7,100/6,900	7,100	9,100/8,900	9,100	12,000/11,900	12,000	14,000/13,900	14,000
Amps	2.8/3.0	2.3	3.7/3.8	3.0	4.6/5.0	4.3	6.3/6.9	5.9
Watts	610/595	610	790/775	790	1,110/1,100	1,130	1,470/1,450	1,470
EER	11.6	11.6	11.5	11.5	10.8	10.8	9.5	9.5
Unit without Electric Heater								
Min. Circuit Ampacity (Notes 2, 4)	4.0	3.6	5.1	4.4	6.4	5.7	8.8	7.7
CFM (Cool, Wet Coil) High Low	245/240 220/205	245 220	245/240 220/205	245 220	325/315 250/229	325 250	325/315 250/220	325 250
CFM (Dry Coil) High Low	265/260 230/215	265 230	265/260 230/215	265 230	345/335 265/235	345 265	345/335 265/235	345 265
Ventilated Air, CFM (Fan Only)*	65*	65*	65*	65*	70*	70*	70*	70*
Ventilated Air, CFM (Compressor & Fan)*	65*	65*	65*	65*	70*	70*	70*	70*
Dehumidification (Pints/Hr.)	1.6	1.6	2.6	2.6	3.5	3.5	4.4	4.4
Net Weight (approximate lbs.)	90	90	95	95	105	105	110	110
Shipping Weight (approximate lbs.)	105	105	110	110	120	120	125	125

*Approximately 95 CFM with optional power vent kit. Actual vent CFM performance will vary due to application and installation conditions.

Electric Heater Performance—PTC and PTH Models

(Primary Heating for PTC Models; Auxiliary Heating for PTH Models)

See page 11 for Power
Cord Configuration

VOLTAGE	ELECTRIC HEATER SIZE (kW)	NO. OF STAGES	NOMINAL HEATING			TOTAL WATTS (NOTE 6)	TOTAL AMPS (NOTE 8)	MIN. CIRCUIT AMPACITY (NOTE 2)	OVERCURRENT PROTECTION (NOTE 4)	POWER CORD
			BTUH AT 230V	BTUH AT 208V	BTUH AT 265V					
230/208V	2.5/2.0	1	8,500	6,800	--	2,650/2,140	11.5/10.2	14.2	15	6 - 15 P
230/208V	3.5/2.9	1	12,000	9,900	--	3,650/3,040	15.8/14.5	19.6	20	6 - 20 P
230/208V	5.0/4.1	1*	17,100	14,000	--	5,150/4,240	22.3/20.3	27.7	30	6 - 30 P
265V	2.5	1	--	--	8,500	2,650	10.0	12.4	15	7 - 20 P
265V	3.7	1	--	--	12,600	3,850	14.6	18.1	20	7 - 20 P
265V	5.0	1*	--	--	17,100	5,150	19.5	24.2	25	7 - 30 P

*PTH/PTC09*B50*E has the same air flow as a PTC/PTH12*B***E. (Not available on 7,000 BTU models.)

Hydronic Heat Models

Hydronic Models / Hot Water & Steam Heating

These models are shipped without a chassis front or electric heat, and they have an additional relay and 40VA transformer for water or steam valve operation. Also available is Hydronic with Powered Vent and Hydronic with Powered Door. See Model Nomenclature for Special Feature Codes for these models. See page 7 for hydronic accessories.

Hydronic with Manual Door

Model Number	Voltage Capacity	Cooling Capacity	EER
PTC093B00HE	230/208	9,100/8,900	11.6
PTC123B00HE	230/208	12,000/11,900	10.8
PTC153B00HE	230/208	14,200/14,000	9.5
PTC094B00HE	265	9,100	11.6
PTC124B00HE	265	12,200	10.8
PTC154B00HE	265	14,200	9.5

Cooling/Heat Pump and Electric Heat—PTH Models (Heat Pumps)

Model (Basic) (Notes 1, 7, 9, 10)	PTH073B**AE PTH074B**AE PTH093B**AE PTH094B**AE PTH123B**AE PTH124B**AE PTH153B**AE PTH154B**AE								
Voltage (Notes 1, 3)	230/208	265	230/208	265	230/208	265	230/208	265	
Capacity (BTUH)	7,000/6,800	7,000	9,100/8,900	9,100	12,000/11,800	12,000	14,000/13,900	14,000	
Amps	2.8/3.0	2.3	3.5/3.8	3.0	4.6/5.0	4.3	6.3/6.9	5.9	
Watts	605/585	605	790/775	790	1,110/1,090	1,110	1,505/1,495	1,505	
EER**	11.6	11.6	11.5	11.5	10.8	10.8	9.3	9.3	
Units without Electric Heater									
Min. Circuit Ampacity (Notes 2, 4)	4.0	3.6	5.1	4.4	6.4	5.7	8.8	7.7	
CFM (Cool, Wet Coil)	High Low	245/240 220/205	245 220	245/240 220/205	245 220	325/315 250/229	325 250	325/315 250/220	325 250
CFM (Dry Coil)	High Low	265/260 230/215	265 230	265/260 230/215	265 230	345/335 265/235	345 265	345/335 265/235	345 265
Ventilated Air, CFM (Fan Only)*		65*	65*	65*	65*	70*	70*	70*	70*
Ventilated Air, CFM (Compressor and Fan)*		65*	65*	65*	65*	70*	70*	70*	70*
Dehumidification (Pints/Hr.)		1.6	1.6	2.6	2.6	3.5	3.5	4.4	4.4
Net Weight (approximate lbs.)		95	95	100	100	110	110	115	115
Shipping Weight (approximate lbs.)		110	110	115	115	125	125	130	130

* Approximately 95 CFM with optional power vent kit. Actual vent CFM performance will vary due to application and installation conditions.

**EER - Energy Efficiency Rating per Air Conditioning & Refrigeration Institute (ARI) Test Procedures and Canadian Standards Association (CSA) EER Test Procedures

Heating Performance—PTH Models (Heat Pumps)

Heating Capacity Reverse Cycle (Note 1)		PTH073B**AE	PTH074B**AE	PTH093B**AE	PTH094B**AE	PTH123B**AE	PTH124B**AE	PTH153B**AE	PTH154B**AE
BTUH (Note 5)		6,200/6,000	6,200	8,200/8,000	8,200	10,800/10,600	10,800	13,300/13,200	13,300
Amps		2.6/3.0	2.2	3.2/3.6	2.6	4.5/5.1	3.9	5.7/6.3	5.4
Watts		550/530	550	750/730	750	1,020/1,000	1,020	1,340/1,330	1,340
COP (Note 5)		3.3	3.3	3.2	3.2	3.1	3.1	2.9	2.9
CFM (Dry)		235/230	235	235/230	230	310/290	310	345/335	345
Heating, BTUH (Note 5) Outdoor Ambient Rating Point	° F								
	62	7,200/7,000	7,200	9,800/9,600	9,800	13,000/12,800	13,000	15,800/15,700	15,800
	57	6,900/6,700	6,900	9,300/9,100	9,300	12,300/12,100	12,300	15,000/14,900	15,000
	52	6,500/6,300	6,500	8,700/8,500	8,700	11,600/11,400	11,600	14,200/14,100	14,200
	47	6,200/6,000	6,200	8,200/8,000	8,200	10,800/10,600	10,800	13,300/13,200	13,300
	(COP)*	3.3/3.3	3.3	3.2/3.2	3.2	3.1/3.1	3.1	2.9/2.9	2.9
	42	5,900/5,700	5,900	7,700/7,500	7,700	10,100/9,900	10,100	12,500/12,400	12,500
	37	5,600/5,400	5,500	7,200/7,000	7,200	9,400/9,200	9,400	11,700/11,600	11,700
	32	5,300/5,100	5,200	6,700/6,500	6,700	8,600/8,400	8,600	10,800/10,700	10,800
	27	5,000/4,800	5,000	6,200/6,000	6,200	7,900/7,700	7,900	10,000/9,900	10,000
	24	4,800/4,600	4,800	5,900/5,700	5,900	7,500/7,300	7,500	9,500/9,400	9,500
Watts Outdoor Ambient	62	580/560	580	810/790	810	1,120/1,100	1,120	1,465/1,455	1,465
	57	575/555	575	800/780	800	1,090/1,075	1,090	1,440/1,430	1,440
	52	555/535	555	775/755	775	1,060/1,045	1,060	1,405/1,395	1,405
	47	550/530	550	750/730	750	1,020/1,005	1,020	1,340/1,330	1,340
	42	540/525	560	730/710	730	985/970	985	1,325/1,315	1,325
	37	530/515	545	705/685	705	950/935	950	1,285/1,275	1,285
	32	515/500	535	690/670	690	900/885	900	1,240/1,230	1,240
	27	505/490	525	660/640	660	855/840	855	1,190/1,180	1,190
	24	500/485	520	640/620	640	830/815	830	1,180/1,170	1,180

NOTES:

- All 265v models must use our subbase (PTSB4**D) or an Amana® brand hard wire kit (PTPWHWK4).
- Minimum branch circuit ampacity ratings conform to the National Electric Code. However, local codes should apply.
- Minimum voltage on 230/208 volt models is 197 volts; maximum is 253 volts. Minimum voltage on 265 volt models is 238.5 volts; maximum is 291.5 volts.
- Overcurrent protection for **all units without electric heaters** is 15 amps. Overcurrent protection on 265 volt models must be cartridge-style time delay fuses (included and factory-installed on Amana® brand all 265 volt chassis).
- Heating capacity and efficiency is based on unit operation without condensate pump. Unit automatically switches to electric heat at approximately 24 °F outdoor ambient.
- Total watts for 12,000 and 15,000 Btuh models. Subtract 70 watts for PT07/09*B**AE.
- Please specify 2-digit heater kW size to complete model number.
- Total amps for 12,000 and 15,000 Btuh models; subtract 0.2 amps for PT07/09*B**AE.
- Refrigerant used in all systems is R-22.
- All units meet or exceed ASHRAE 90.1 standards.

See facing page for Auxiliary Electric Heater Performance

COP - Coefficient of Performance per ARI Test Procedures
Units are rated for capacities and efficiencies.

Accessories

Wall Sleeve 14 $\frac{1}{8}$ " (D) x 42" (W) x 16 $\frac{1}{16}$ " (H)

Our insulated, stonewood beige metal sleeves with industry-standard dimensions are shipped with a weather board for use during construction. The WS900D is an industry-standard depth of 14 $\frac{1}{8}$ ". The extra-deep sleeves can be custom ordered starting at 16" to 24" (D) in 1" increments. Sleeves may be shipped separately to allow for installation during construction.

Outdoor Grilles

Available in stamped-aluminum or architecturally louvered for application with a WS900D wall sleeve.

AGK—Extruded aluminum architectural grille available with anodized aluminum finish and a baked-on paint finish for durability. Choose from 3 stock colors or a custom color. CB (Clear Anodized), DB (Dark Brown/Bronze), TB (Stonewood Beige), WB (White), SB (Special/Custom Colors)

PGK—One-piece injection molded grille using a polymer blend of engineered thermoplastic high-impact strength material with chemical resistance and an exterior UV protective coating. Choose from 3 stock colors. DB (Dark Brown/Bronze), TB (Stonewood Beige), WB (White)

Subbase Kit

The fully skirted subbase conceals wiring while providing strong support, if needed. Plug-in receptacle and field-wiring access speeds installation. Electrical accessories, such as fuse holders, circuit breakers and disconnect switches, meet N.E.C. requirements.

Hard Wire Kit (not shown)

Used to permanently wire to the chassis when a standard subbase and power cord are not utilized.

Fuse Holder Kit

Cartridge-style fuses can be installed in the fuse holder for use in the subbase or chassis. Available in 15, 20 and 30 amp (included on 265-volt unit).

External Transformer Kit (not shown)

40VA transformer to provide additional low-voltage power to accommodate a wide range of energy management systems or external relays. EXTRK03A and EXTRK04A are the **only approved transformer kits** that can be used.

Circuit Breaker Kit (230/208V only)

The circuit breaker kit, available in 15, 20 or 30 amp, can be used with Amana® brand subbases. It gives overcurrent protection, and its location allows you to turn the unit on or off without tools.

Wire Harness Kit (not shown)

For quick connections of the remote thermostat or front desk with jumpers and connectors.

Remote Temperature Sensor

Allows inexpensive, low-voltage temperature sensing on the internal wall for more accurate temperature control.

STC 30 Rating Accessory Kit (not shown)

Raises sound ratings from 27 to 30 to meet or exceed most sound test requirements.

Power Disconnect Switch (not shown)

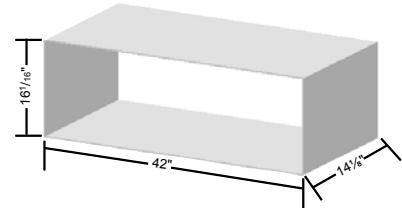
The PSHW**A power disconnect switch can be used for 265-volt or 230/208-volt physical disconnect, where required by local codes. The switch is rated at 30-amp capacity. The switch is for use with and Amana® brand standard subbases or PTPWHWK4 Hard Wire Kit.

Thermostats

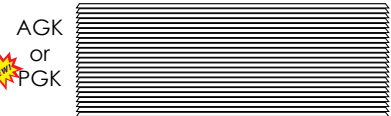
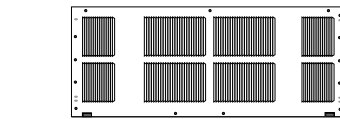
The following thermostats offer remote control. Any thermostat other than those listed must be submitted to Goodman Company, L.P., for approval prior to use.

WS900D	Standard 14 $\frac{1}{8}$ " Depth
WS9**D1	Extra Deep (16" to 24")

** Depth in inches

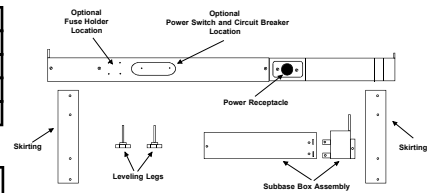


Standard Outdoor Grille	
SGK01B	Single Pack
Architectural Grille	
AGK01*B	Single Pack
PGK01*B	Single Pack



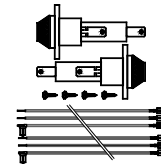
PTSB320D	230/208V 15/20A
PTSB330D	230/208V 30A
PTSB420D	265V 15/20A
PTSB430D	265V 25A
PTSB000D	Non-electrical

PTPWHWK4	Hard Wire Kit
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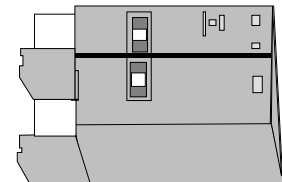


FHK315C	230/208V 15A
FHK320C	230/208V 20A
FHK330C	230/208V 30A

EXTRK03A	208/230V
EXTRK04A	265V

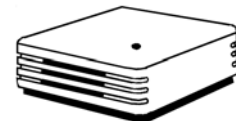


CBK3**C	Circuit Breaker Kit
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PWHK01B	Wire Harness Kit
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RTS02	Remote Temperature Sensor
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STC101A	10 Pack
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PSHW03A	230/208V
PSHW04A	265V

Model	Heat Stages	Cool Stages	Display	Type	Shape & Orientation
C5200609	1*	1	Mech.	Manual	Round
D9945801	2**	1	Mech.	Manual	Rect./Horiz.
1246005/6	1*	1	Mech.	Manual	Rect./V or H
1246001	1*	1	Digital	Manual	Rect./Horiz.
1246003	2**	1	Digital	Manual	Rect./Horiz.
1246004	2**	1	Digital	Program	Rect./Horiz.
1241501	2**	1	Digital	Auto Change	Rect./Vert.



* PTC Models Only
** PTC and PTH Models

Condensate Drain Kit

Attaches to the wall sleeve base pan for controlled internal or external disposal of condensate.

Security Key Locks (not shown)

In conjunction with the tamper-resistant front, the installation of Amana® brand security key locks prevents tampering of the controls used to set temperature, heating and cooling functions. U.L. approved for institutional use only.

Remote Escutcheon Kit (not shown)

Optional kit for use with units controlled via a wall thermostat. Replaces knob controls for units operated by wall thermostat.

Condenser Baffle Kit

For use on non-baffled grilles. These deflectors direct the air in toward the center and away from the inlet to prevent recirculation of the hot condenser air.

Power Vent Kit (not shown)

Installation of Power Vent increases CFM up to approximately 95. Vent door will automatically close when unit fan is off.

Power Door Kit (not shown)

Vent door will automatically open when unit fan is on.

Hydronic Transformer Relay Kit (not shown)

Add-on kit that allows field conversion of a standard PTC unit to a hydronic unit.

Hydronic Heat Kit

Add-on kits fit all units allowing the addition of hydronic water or hydronic steam heat to cooling and heating units. The kits feature left- or right-hand piping. Unit retains complete service access with a kit installed.

Hydronic Valves (not shown)

Water and steam valves are available for use with the HWK03 (water) and HVK03 (steam) heat kits. (See Architects and Engineers Manual for specifications.)

Condensate Removal Pump (not shown)

Can be field installed. Assists in removing condensate developed by heat pump operation and transfers it to indoor coil to dissipate into room while adding humidity to the room.

Spare Filters (not shown)

Helps keep dirt and lint out of the air and off the coil, thus increasing the unit's efficiency. Amana® brand filters are easy to remove, wash and replace.

NEW! Replacement Charcoal Filter Kit (not shown)

Absorbs airborne odors caused by cigarette, pipe or cigar smoke and odors caused by mold, mildew, etc. Filters are made of polyester fibers coated with activated charcoal and are individually wrapped. This filters are permanent and can be washed or cleaned. Call your Amana® brand PTAC sales person for details. 10 filters per pack.

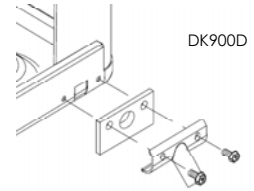
Duct Extension Kit

Extends air distribution to an adjoining room. Consists of a main duct for the room of origin and an extension duct to reach the adjoining room and terminal duct.

Heater Kit—For Heater-less Units Only (not shown)

Optional 1.5kW heater kits are available for use only with models originally shipped without electric heat. Ask salesperson for details.

DK900D	Condensate Drain Kit (use with WS900D)
DK901D	Condensate Drain Kit (use with WS900B & extra deep wall sleeves)
KL03B	Security Key Lock



REK10B	Remote Escutcheon Kit (10-pack)
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DGK1B	Condenser Baffle Kit
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PVK3A	230/208V
PVK4A	265V

PDK3A	230/208V
PDK4A	265V

HTK3A	230/208V
HTK4A	265V

HWK03	Hydronic Water Kit
HVK03	Hydronic Steam Kit

VS2WNCA*	2-way/24V/NC/Steam
VS2WNOA*	2-way/24V/NO/Steam
VW2WNCA*	2-way/24V/NC/End Switch
VW2WNOA*	2-way/24V/NO/End Switch
VW3WNC2B*	3-way/24V/NC/NO/End Switch

* Poptop Actuator

CDP302	230/208V
CDP402	265V

FK10A	Filters (10-pack) - A Series
FK10B	Filters (10-pack) - B Series

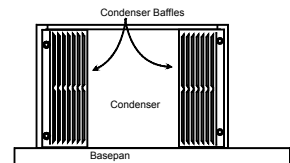


CFK10A	Charcoal Filters (10-pack) - A Series
CFK10B	Charcoal Filters (10-pack) - B Series

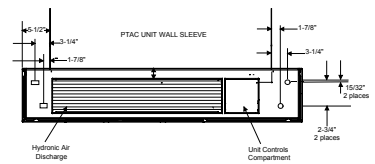
MDK02B	Main Duct
EDK02B	Extension Duct
TDK02	Terminal Duct

	Model Nominal BTUs	230V	208V	265V
Rated Watts	All	1,500	1,200	1,500
Full Load Amps (incl. fan)	7K & 9K	6.9	6.2	6.1
	12K & 15K	7.1	6.4	6.3
Min. Ampacity	7K & 9K	8.6	8.6	7.5
	12K & 15K	8.8	8.8	7.7
Fuse Size	All	15	15	15

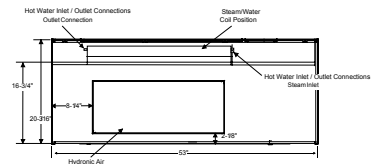
Each kit contains 80 wires and wire nuts, enough to attach a thermostat and one additional accessory to 10 PTAC units. Wires come in assorted colors for easy attachment.



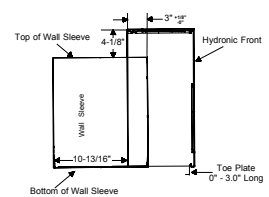
Hydronic Heat Kit-Top View



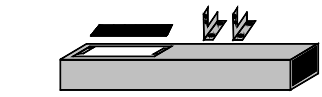
Hydronic Heat Kit-Right View



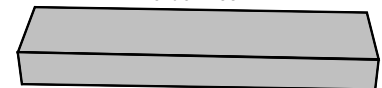
Hydronic Heat Kit-Side View



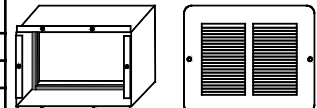
Main Duct Kit



Extension Duct Kit



Terminal Duct Kit



Product Data Book

Furnish and install air cooled through the wall package terminal air conditioners (heat pumps). Units are rated in accordance with the ARI (Air Conditioning & Refrigeration Institute) Standards 310/380-93, CSA (Canadian Standards Association) EEV certification programs and listed by U. L. (Underwriters Laboratories).

Ratings

Each unit must meet the following specifications:
ARI rating of _____ BTUH cooling (and _____
BTUH reverse cycle heating with a COP of _____
_ at 47° F O.D.)

Electric resistance heat of _____ BTUH. Total
Amp draw must be of _____ and _____
Watts at _____ volts.

The unit must remove a minimum of _____
pints of moisture per hour when operated at rating
conditions. The EER must be a minimum of _____
_ EER.

Unit Chassis

Each unit must be slide out design shipped with
room cabinet front installed. Unit chassis must
have the ability to be installed with 0 clearance
from finished floor. An electrical power cord
must be included with chassis and installed by
the manufacturer to assure proper NEMA 6 or
7 configuration and UL-approved length. Unit
must be tested for conformance to ASTM E water
infiltration specification **ASTM E 331-86**, which
ensures no water infiltration when tested at 8" rain
per hour at 63 mph wind for 15 minutes.

Room Cabinet

The monochromatic front of the room cabinet
must be able to be field-secured to chassis to inhibit
tampering. Filter must be accessible without removing
room front. Cabinet depth must not exceed 7½" to
minimize unit's impact on room space.

Coils

Unit's coils must have rifled copper tubing expanded
into rippled-edge louvered aluminum fins.

Heat Pumps

Each unit must include a changeover thermistor
that senses an outside ambient switch-over
temperature as low as 24 °F, lock-open refrigerant
reversing valve during heat pump operation,
temperature-activated defrost drain and
automatic emergency heat operation to override
the heat pump's change-over thermostat and
bring on electric resistance heaters in the event
of a sealed system failure. Unit must not operate
compressor and electric heaters simultaneously.

Compressor

The compressor must be hermetically sealed,
internally isolated, rotary-type and permanently
mounted on rubber isolators. No removal or
adjustment of compressor hold-down bolts is to be
required during installation.

Unit Controls

The unit's controls must be completely wired and
accessible from the top. Controls must include
high and low fan speeds for both cooling,
heating, fan-only operation and an OFF position.
Other unit controls must include a concealed
ventilation control to allow the introduction of
outside air into the room, a concealed fan mode
switch to allow the owner to preset for either
continuous fan or thermostatically cycled fan
operation. Additionally, the following controls are
to be included as standard on all units:

- *Compressor restart delay*
- *Random restart circuit*
- *Front desk control capabilities*
- *Automatic room freeze protection*
- *Remote control capability*
- *Electronic temperature limiter*
- *Remote temperature sensing capability*
- *Load shedding capability*

Evaporator/Condenser Fans

Direct drive with a permanent, split-capacitor,
two-speed motor. Condensate must be
directed onto the bent condenser coil to aid in
evaporation and removal. Condenser fan must be
a forward-curved, 9-bladed, propeller type with
a slinger ring, and the evaporator fan must be
blower type.

Air Discharge

Must be a sloped surface so that obstructions
cannot be placed on the unit. Discharge
conditioned air can be directed into the
room at an angle of 15 or 40 degrees from the
vertical position. The discharge grille must be
of polycarbonate material to resist bending,
cracking, rusting and corrosion.

Warranty

The warranty is for **Full One Year** on the entire unit;
Full Second through Fifth Year on the entire sealed
refrigerant system components; **Limited Second
through Fifth Year** on functional parts only.

New installations typically require a minimum of WS900D wall sleeve and an outdoor grille.

Wall Sleeves (WS900D)

The wall sleeve must be industry-accepted dimensions: 14 $\frac{1}{8}$ " depth x 42" width x 16 $\frac{1}{16}$ " height and constructed of G90 HDG galvanized steel with a baked corrosion-inhibiting urethane primer and baked-polyester topcoat enamel. Sleeve must be insulated and shipped with a weather resistant rear closure panel installed.

Outdoor Grilles

Outdoor grille must be architecturally extruded, louvered aluminum (AGK01*B), one-piece polymer-blend injection molded louver (PGK01*B) or standard stamped aluminum (SGK**B). All other grilles must be submitted to the PTAC manufacturer for feasibility, airflow characteristics and compliance with UL regulations, where necessary.

The optional accessories listed below perform specific functions required in some installations.

Remote Temperature Sensor (RTS02)

A field-installed thermistor will override the unit-mounted thermostat to allow more accurate, internal wall-sensing of room-ambient temperature. All other modes and functions remain at the PTAC unit.

Condensate Drain Kit (DK900D)

Attaches to the bottom of the wall sleeve for directional-controlled internal or external disposal of condensate, defrost or rain water.

Subbase Kit (PTSB*D)**

Necessary for U.L. listing requirements for 265V units (Hard Wire Kit may be substituted for Subbase kit). Optional for 230/208V units. Must be pre-wired to facilitate field-electrical connections and include a NEMA 6 or 7 configuration electrical receptacle. It must have 2 leveling screws for sleeve support and accurate unit leveling during installation. Locations for field installation of physical disconnect switches, cartridge-style fuse holders and circuit breakers must be provided. Side-skirts must be provided with subbases. (PTSB000D Non-Electrical Subbase available.)

Power Vent & Damper

Must be provided to maximize ventilation air intake to up to approximately 95 CFM. Power vent must be off and damper door closed when unit fan is de-energized.

Fuse Holder (included in 265V chassis)

Must be installed either in the unit or the subbase and must match the electrical requirements of the chassis.

Security Key Locks (KL03B)

Must be installed to prevent tampering of the unit controls. Unit room cabinet must also be secured to the chassis with field supplied screws. U.L.-approved for institutional use only.

Disconnect Switch

Power disconnect switch must be installed in subbase for use as a physical disconnect, where required by local codes.

Duct Kits (MDK02B, EDK02B, TDK02)

Three kits must be supplied to provide ducted, conditioned air into a second room: a main duct kit, an extension duct kit and a terminal duct kit.

Hydronic Heat Kit

Is required for heating functions instead of electric resistance heaters. Unit must retain complete service access with the kit installed. Proper water or steam valves must be used.

Condensate Removal Pump (Heat Pumps only)

Must be installed to assist in removing the condensate developed by the heat pump operation and transfer it to the indoor coil to dissipate into the room, adding humidity to the room.

Circuit Breaker Kit

Must be installed in subbase to provide overcurrent protection for proper 230/208V amperage. Can also be used as a physical disconnect where local codes permit for 230/208 voltage.

Hard Wire Kit

Must be used to permanently wire chassis for hard wire purposes. (For 265V units, Hard Wire Kit may be substituted with Subbase Kit.)

Charcoal Filter Kit -- Optional (CFK10B)

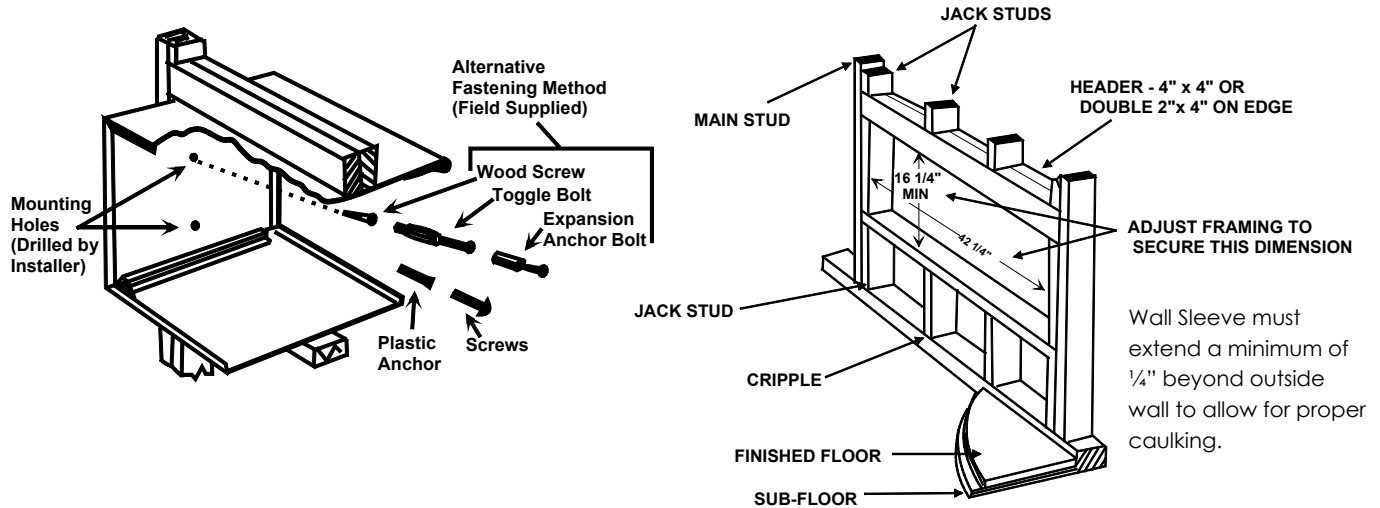
Amana® brand Activated Charcoal filters absorb odors caused by cigarette, pipe or cigar smoke and airborne odors caused by mold, mildew, etc. These replacement filters are polyester fibers coated with activated charcoal. Each filter is individually wrapped to assure maximum absorption and durability when installed. (10 filters per kit.)

Thermostats

A manufacturer-approved manual, auto changeover or programmable thermostat must be installed to provide full remote operation of the chassis. A Remote Escutcheon Kit must be used to indicate remote operation.



Framing for Accessory Wall Sleeve (WS900D)



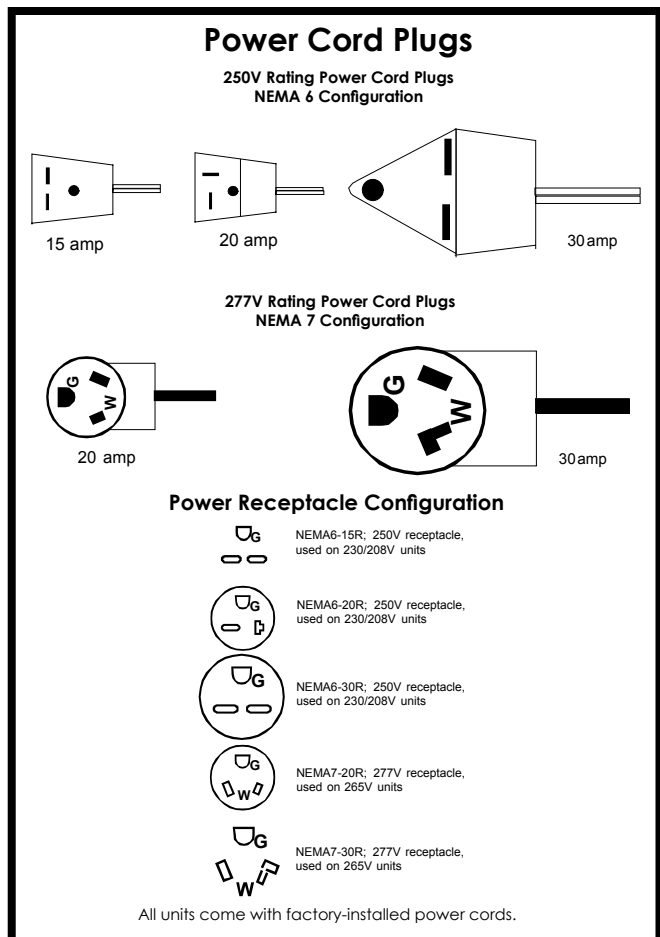
FASTENING WALL SLEEVE

When installed in an opening, the Wall Sleeve must be horizontally level (side-to-side) and pitched $\frac{1}{4}$ bubble to the outside. (**NOTE:** To ensure unit's maximum efficiency, **DO NOT** over- or under-pitch.)

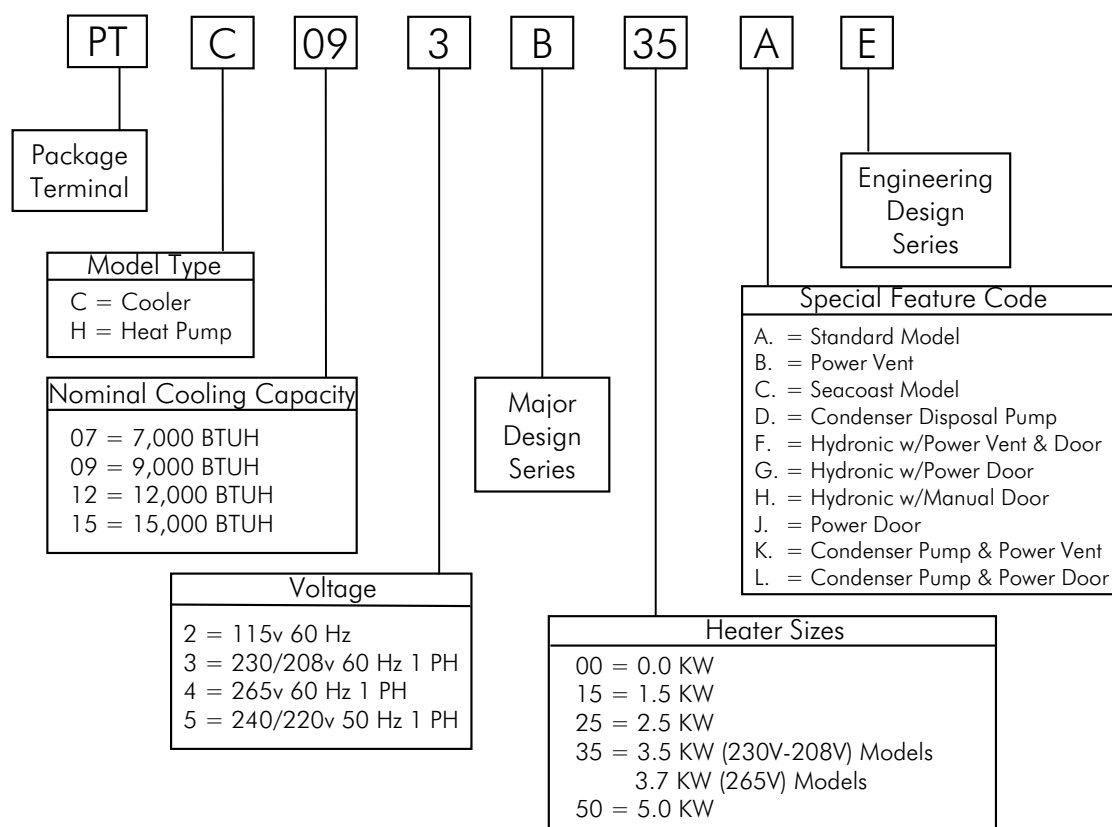
INSTALLATION NOTES

1. If **Subbase** (PTSB***D) is installed, allow minimum $3\frac{1}{4}$ " height clearance and maximum 5" height clearance between wall sleeve and floor; allow minimum $2\frac{3}{4}$ " protrusion from a finished wall. See Note 4 if using hydronic units.
2. **Drain Kit** (DK900D) shipped separately. Can be mounted either right side, left side or bottom of sleeve. If mounted to bottom of sleeve, allow 2" height clearance from floor to bottom of sleeve.
3. For U.L. approval, 265V units must use Amana® brand **Subbase** (PTSB***D) or Amana® brand **Hard Wire Kit** (PTPWHWK4). Overcurrent protection on 265V units must be by cartridge-style time delay fuses, **which are included and factory-installed on the Amana® brand 265V chassis**.
4. If **Hydronic Kit** (HWK03 or HVK03) is installed, **Wall Sleeve** must extend exactly 3" into the room from the finished interior wall. If using the Amana® brand **Subbase** (PTSB***D), only the minimum $3\frac{1}{4}$ " height clearance between wall sleeve and floor is permissible.
5. If **Duct Kit** (MDK02B) is installed, allow a minimum of $2\frac{3}{8}$ " into the room from the finished interior wall.

Wall Sleeve Opening Height Should Be Squared with Wall Sleeve Opening Width	H = $16\frac{1}{4}$ "
	W = $42\frac{1}{4}$ "



Model Nomenclature



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Date: 01/04

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